No.



8400033

HHE UNKHED SIEVIES OF AVIERICA

TO ALL TO WHOM THESE PRESENTS SHALL COME;

Black Jewell Popcorn, Inc.

Tolhereas, there has been presented to the

Secretary of Agriculture

AN APPLICATION REQUESTING A CERTIFICATE OF PROTECTION FOR AN ALLEGED NOVEL VARIETY OF SEXUALLY REPRODUCED PLANT, THE NAME AND DESCRIPTION OF WHICH ARE CONTAINED IN THE APPLICATION AND EXHIBITS, A COPY OF WHICH IS THEREUNTO ANNEXED AND MADE A PART HEREOF, AND THE VARIOUS REQUIREMENTS OF LAW IN SUCH CASES MADE AND PROVIDED HAVE BEEN COMPLIED WITH, AND THE THILE THERETO IS, FROM THE RECORDS OF THE PLANT VARIETY PROTECTION OFFICE, IN THE APPLICANT(S) INDICATED IN THE SAID COPY, AND WHEREAS, UPON DUE EXAMINATION MADE, THE SAID APPLICANT(S) IS (ARE) ADJUDGED TO BE ENTITLED TO A CERTIFICATE OF PLANT VARIETY PROTECTION UNDER THE LAW.

NOW, THEREFORE, THIS CERTIFICATE OF PLANT VARIETY PROTECTION IS TO GRANT UNTO THE SAID APPLICANT(S) AND THE SUCCESSORS, HEIRS OF ASSIGNS OF THE SAID APPLICANT(S) FOR THE TERM OF Eighteen YEARS FROM THE DATE OF THIS GRANT, SUBJECT TO THE PAYMENT OF THE REQUIRED ATES AND TERRODIC REPLENISHMENT OF VIABLE BASIC SEED OF THE VARIETY IN A PUBLIC REPOSITORY AS PROVIDED BY LAW, THE RIGHT TO EXCLUDE OTHERS FROM SELLING THE VARIETY, OR OFFERING IT FOR SALE, OR REPRODUCING IT, IMPORTING IT, OR EXPORTING IT, OR USING IN IN PRODUCING A HYBRID OR DIFFERENT TY THEREFROM, TO THE EXTENT PROVIDED BY THE PLANT VARIETY PROTECTION ACT.

UNITED STATES SEED OF THIS VARIETY (1) SHALL BE SOLD BY VARIETY NAME ONLY AS OF CERTIFIED SEED AND (2) SHALL CONFORM TO THE NUMBER OF GENERATIONS THE OWNER OF THE RIGHTS. (84 STAT. 1542, AS AMENDED, 7 U.S.C. 2321 ET SEQ.)

CORN

'Black Jewell 85'

In Lestimony Winerest, I have hereunto set my hand and caused the seal of the Plant Variety Protection Office to be affixed at the City of Washington this 22nd day of February in

this 22nd day of February in the year of our Lord one thousand nine hundred and eighty-five.

Secretary of Agriculture

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Cerneth Heran

Plant Variety Protection Office Assignational Manhating Coming

A COMPANY OF THE STATE OF

U.S. DEPARTMENT OF AGRICULTURE AGRICULTURAL MARKETING SERVICE LIVESTOCK, MEAT, GRAIN & SEED DIVISION					FORM APPROVED: OMB NO. 0581-0005			
APPLICATION FOR PLANT VAR	may catio	No certificate for plant variety protection may be issued unless a completed application form has been received (5 U.S.C 553).						
1. NAME OF APPLICANT(S)		2. TEMPORARY DESIGNATION	3. V	ARIETY	JAME			
Black Jewell Popcorn, Inc	## BJ-1 RAS	BLACK JEWELL 85						
4. ADDRESS (Street and No. or R.F.D. No., City, St.	ate, and Zip Code)	5. PHONE (Include area code)	 	FOR OF	FICIAL USE ONLY			
RR# 1	_		PVP	NUMBER	3			
St. Francisville, IL 624	(618) 948-2303	8400033						
6. GENUS AND SPECIES NAME	7. FAMILY NA	ME (Botanical)		DATE				
Zea Maize	Gramina	ae	FILING	12/ TIME 2:3	27/83			
8. KIND NAME	19.	DATE OF DETERMINATION	-		FOR FILING			
Black Jewell Popcorn		Oct 1983	RECEIVED	000 27/83				
10. If the APPLICANT NAMED IS NOT A "PERSO partnership, association, etc.) Corporation	OF ORGANIZATION (Corporation	FEES REC	L	FOR CERTIFICATE				
11. IF INCORPORATED, GIVE STATE OF INCORP		<u> </u>	1/29					
Illinois	ONATION	• '	12. DATE OF INCORPORATION October 21, 1983					
a. Exhibit A, Origin and Breeding History of the Section 52 of the Plant Variety Protection A. b. Exhibit B, Novelty Statement 15. DOES THE APPLICANT(S) SPECIFY THAT SEEL SEED? (See Section 83(a) of the Plant Variety Pro	e Variety (See ct.)	c. Exhibit C, Objective D from Plant Variety Pro	tection Descrip	Office.)	Variety			
, , , , , , , , , , , , , , , , , , ,	100110117101,7	Yes (If "Yes," answer	tems 16	as A CLA and 17 be	low) No			
16. DOES THE APPLICANT(S) SPECIFY THAT THIS LIMITED AS TO NUMBER OF GENERATIONS?	VARIETY BE	17. IF "YES" TO ITEM 16, V BEYOND BREEDER SEE	HICH (D?	CLASSES	PRODUCTION RAS 1/30/8			
Yes No IB. DID THE APPLICANT(S) FILE FOR PROTECTION	N OF THE WAR	X Foundation	X Re	gistered	⊠ Certified			
	NOT THE VARI	EIT IN THE U.S. OR OTHER COU	NTRIE	5?	Yes (If "Yes," give names of countries and dates)			
				[X]	No			
19. HAVE RIGHTS BEEN GRANTED IN THE U.S. O	R OTHER COUNT	RIES?			Yes (If "Yes," give names			
9. HAVE RIGHTS BEEN GRANTED IN THE U.S. O	R OTHER COUNT	RIES?	-	<u>[X]</u>	Yes (If "Yes," give names of countries and dates)			
0. The applicant(s) declare(s) that a viable samp	le of hasic seeds	of this variety will be forming.	with t		Yes (If "Yes," give names of countries and dates)			
	le of basic seeds ch regulations as	of this variety will be furnished may be applicable.		X he applica	Yes (If "Yes," give names of countries and dates) No tion and will be re-			
The undersigned applicant(s) is (are) the owned distinct, uniform, and stable as required in Sevariety Protection Act. Applicant(s) is (are) informed that false representations.	le of basic seeds ch regulations as er(s) of this sexu ction 41, and is o	of this variety will be furnished may be applicable. ally reproduced novel plant vari entitled to protection under the	ety, an provis	X he applica d believe(Yes (If "Yes," give names of countries and dates) No tion and will be re- (s) that the variety is ction 42 of the Plant			
20. The applicant(s) declare(s) that a viable sample plenished upon request in accordance with sue. The undersigned applicant(s) is (are) the owner distinct, uniform, and stable as required in Second	le of basic seeds ch regulations as er(s) of this sexu ction 41, and is a sentation herein	of this variety will be furnished may be applicable. ally reproduced novel plant vari entitled to protection under the	ety, an provis esult in	Me applicand believelions of Se	Yes (If "Yes," give names of countries and dates) No tion and will be re- (s) that the variety is ction 42 of the Plant			

FORM LMGS-470 (9-81) (Edition of 1-78 is obsolete)

BLACK JEWELL POPCORN

BLACK JEWELL 85 PJS 1/30/85 <BJ-1>

Corn Application No. 8400033 Exhibit A:

BLACK JEWELL 85'

Pedigree: <BJ-17is derived from an unknown black popcorn imported from Germany during World War II and crossed with an unnamed white hulless. This cross of the original black and white hulless was subsequently crossed with an unnamed red popcorn. After several generations of sibcrossing with selected plants of this final cross, <BJ-17 has remained stable through two generations of selfing when normal open pollinated selection of seed is used.

There is approximately a 1:100,000 dark red seed occurance and a 1:200,000 white seed occurance.

Corn Application No: 8400033, (BJ-1)= BLACK JEWELL 85'
Exhibit B:

Purdue A-265-W a white popcorn, exhibits plant characteristics most similiar to $\langle 8J-1 \rangle$. Kernel size and shape is also similiar. The major difference between the varieties is the color of the Aleuron layer; $\langle 8J-1 \rangle$ being a very dark purple and Purdue A-265-W being white.

Expansion of Purdue A-265-W is also better than ABJ-1> ABJ-1 has an expansion ratio of approximately 24:1 and Purdue A-265-W is approximately 32:1.

U.S. DEPARTMENT OF AGRICULTURE AGRICULTURAL MARKETING SERVICE LIVESTOCK, POULTRY, GRAIN & SEED DIVISION BELTSVILLE, MARYLAND 20705

OBJECTIVE DESCRIPTION OF VARIETY CORN (ZEA MAYS)

NAME OF APPLICANT(S)	
Black Jewell Popcorn, Inc.	FOR OFFICIAL USE ONLY
ADDRESS (Street and No. or R.F.D. No., City, State, and ZIP Code)	8400033
RR# 1	VARIETY NAME OR TEMPORARY
St. Francisville, IL 62460	< BJ-1> BLACK JEWELL 85'
	< BU-1/ DIACK GENERAL 03
Place the appropriate number that describes the varietal character of this variety in the	hoves below.
Place a zero in first box (e.g. 0 8 9 or 0 9) when number is either 99 or less or	9 or less.
1. TYPE:	
	•
	OP 6 = ORNAMENTAL
2. REGION WHERE BEST ADAPTED IN THE U.S.A.:	
1 = NORTHWEST 2 = NORTHCENTRAL 3 = NORTHEAST 5 = SOUTHCENTRAL 6 = SOUTHWEST 7 = MOST REGIONS	4 = SOUTHEAST
, Med Trestons	
3. MATURITY (In Region of Best Adaptability): (Under "c	omments" (pg. 3) state how
DAYS FROM EMERGENCE TO 50% OF PLANTS IN SILK	were calculated) HEAT UNITS
THE THE THE THE TO SUM OF TEAM IS IN SIEK	TIEAT ONTS
DAYS FROM 50% SILK TO OPTIMUM EDIBLE QUALITY	HEAT UNITS
DAYS FROM 50% SILK TO HARVEST AT 25% KERNEL MOISTURE	HEAT UNITS
4. PLANT: 175 R/S 11/1/84	
	1.8 43
0 8 0 CM. HEIGHT (To tassel tip)	CM, EAR HEIGHT (To base of top ear)
1 4 CM. LENGTH OF TOP EAR INTERNODE	
	<i>x</i> ~
Number of Tillers: Number of Ears Per Stalk:	
Adminer of Easter Stark.	•
4 1 = NONE 2 = 1-2 3 = 2-3 4 = >3 $ 4 $ 1 = SINGLE 2 =	SLIGHT TWO-EAR TENDENCY
3 = STRONG TWO-E	EAR TENDENCY 4 = THREE-EAR TENDENCY
Cytoplasm Type:	
	•
1 = NORMAL 2 = "T" 3 = "S" 4 = "C" 5 = OTHER (Specify)
5. LEAF (Field Corn Inbred Examples Given):	tank a section of the
Calcus	
Color:	
1 = LIGHT GREEN (HY) 2 = MEDIUM GREEN (WF9) 3 = DARK GREE	N (B14) 4 = VERY DARK GREEN (K166
Angle from Stalk (Upper half): Sheath Pubscence:	and the state of t
1 = $< 30^{\circ}$ 2 = $30-60^{\circ}$ 3 = $> 60^{\circ}$ 2 1 = LIGHT (V	V22) 2 = MEDIUM (WF9)
3 = HEAVY (OH26)
Marginal Waves: Longitudinal Creases:	
1 = NONE (HY) 2 = FEW (WF9) 3 = MANY (OH7L) 1 1 = ABSENT	
3 = MANY (P. Width:	
0 6 CM. WIDEST POINT OF EAR NODE LEAF 0 7 2 CM, EAR	R NODE LEAF
	· ·
1 1 NUMBER OF LEAVES PER MATURE PLANT	4
	•
FORM LPGS-470-28 (3-79) (Formerly Form GR-470-28 (2-74), which may be used)	

	6. TASSEL:	. 17 - 77 - 77 - 77 - 77 - 77 - 77 - 77				· · · · · · · · · · · · · · · · · · ·	,	
		ARROAD BURELLA	e transfer of a group of a	All This L				
	[2]1		LATERAL BRANCH		y entre in e	••		1
<i>C</i>			igna i kustasi i 22,70. • •	•		AMM BAR Tari	1. 机副导致	
		le from Central	Spike:		Penduncie Ler	ngth:		
	3	1 = < 30 ?	2 = 30-40°	3 = > 45°	¥° selfitty	CM. FROM TO	P LEAF TO BASE	L BRANCHES
		egta, fu	Land Comment	e de Strande de		. The state of the	i i i i i i i i i i i i i i i i i i i	a topological
	Pollen Shed	l:						
					The Alberta of M			
	لئا	1 = LIGHT (W	(F9) 2 No. 135 AN	= MEDIUM	3 = HE	AVY(KY21)	the state of the s	
	·			*			13,44,559,538	eritari T
	en een en	Anther Color:	1 = YELLOW	2 = PIN	К 3=	RED 4=1	PURPLE	5 = GREEN
	1	Glume Color:	` }	pecify)			J	o - directiv
	<u> </u>		,					i Politica de Ostaga de de
	Pollen Resto	oration for Cyto	plasms (o = Not Teste	d, 1 = Partial, 2 = G	ood)			
	0 "T"	0	"s" 0 "d	e" 0 c	THER (Specify	Cytoplasm and degre	es of restoration) _	
		Ш.	L			e en la companya de l		
			<u> </u>					
	7. EAR (Husk	ced Ear Data Exc	ept When Stated Oth	erwise):				gg (- 11 %, 84 \$ 1 ddd a gg (- 12 %) - 12 kg
		CM LENGTH	MM A	MID-POINT		3 1 44 1 5 4 5	1 - 154 / 1 - 1 1 - 1 1 - 1 1 - 1 1 1 1 1 1 1 1	
		OW CENTATIV	30 BIAM	ETER	<u> </u>	GM. WEIGHT		
	Kernel Rows	s:		ŧ		The section of		•
	2		•		2	O NUMBER Va	mica	
	لـــــا	1 = INDISTING	2 = D	ISTINCT	[2]	OJ NOMBER VA	TTes	
						and the second	v	
	[2]	1 = STRAIGHT	2 = 51.60	HTLY CURVED	3 = SPI	RAL	I karangan dalah	en en myself metric
		1 - STITATOTT	2 - 3213	THE CONVED	3 - 0			
	Silk Color (E	xposed at Silkin	g Stage):			A Committee of the Comm		A service of the service of the service of
		4 - 00554	o prave				**	
	1	1 = GREEN	2 = PINK	3 = SALMO	N 4	= RED	in the second of	
		-		•	'		36g - 1 7 346 - 11 1	
	Husk Color:						est facilities of the engineering	
	1	FRESH	1 = LIGHT G	REEN	2 = DARK	GREEN	3 = PINK	
		DOV) 4 – 55 h					
	6	DRY	4 = RED	5 = P	URPLE	6 = BUFF		
	Husk Extention	on: (Harvest Sta	ige)		Husk Leaf:			
	3 1 = SH	ORT (Ears Expo	sed) 2 = MEDIUM (E	Barely Covering Ear	1	1 = SHORT (< 8		JM (8—15 CM)
		NG (8-10CM B RY LONG (> 1			لت	3 = LONG (> 15	CM)	. •
	Shank:		· · · · · · · · · · · · · · · · · · ·		Position at Dry	Husk Stage:		en e
						$\mathcal{F}^{(i)} = \mathcal{F}^{(i)}$		
	0 12	CM LONG	NO. OF INTE	RNODES	لـ3ا	1 = UPRIGHT	2 = HORIZONTA	L 3 = PENDENT
	Taper: /	/			Drying Time (U	Inhustrad Earls	-	
					Drying Time (C	miluskeu Ear):	*2	e de la companya de l
	<u>[2-B</u>	1 = SLIGHT	2 = AVERAGE	3 = EXTREME	11	1 = SLOW	2 = AVERAGE	3 = FAST
8.	KERNEL (Dr	ied):				2 2 3		<u> </u>
1	Size (From Ea	r Mid-Point):				en de la companya de	A July 1983 - 1873 - 1883 - 18 Albandar I dan Baratan I d	lagaria (Sata 1714) Kalamata di pengara akan maga palamatan dalah
	09	MM LONG	[0]67	Г	ताडा		·	•
	لكلت			MM. WIDE	MM.	THICK		
	Shape Grade (% Rounds)		• • • • • • • • • • • • • • • • • • • •			V.	. E
	1 1	= < 20	2 = 20-40	3 = 40-60	4 = 60	D80 E	s = > 80	3 · · · · 3 ·

FORM LPGS-470-28 (3-79)

8. KERNEL	(Dried) :		Į.	****			
1	Pericarp Color:	1 = COLORLESS 5 = BROWN / 8 = VARIEGATE	6 = LIGH	WHITE CROWN T RED	3 = TAN 7 = CHERR		
	Aleurone Color:	1 = HOMOZYGOL	JS 2 = SE	GREGATING (Describe)	 		
	= WHITE Dark = PURPEE		3 = TAN PLE 9 = VA	4≃ BROWN ARIEGATED (Describe)		5 = BRONZE	6 = RED
5 E	ndosperm Color:	1 = WHITE	2 = PALE YELLOW	3 = YELLOW	4 = PINK-C	PRANGE 5 = WHIT	E CAP.
5	= SWEET (su1) = WAXY STARCE	2 = EXT 1 6 = HIGI SEEDS (Unsized Sa	1 PROTEIN	3 = NORMAL STAF 7 = HIGH LYSINE	-	H= HIGH AMYLOSE STA H= OTHER (Specify) HODIFIROUS RY	
9. COB:			impie)		- 10	· •	
1 4 M	M. DIAMETER AT	MID-POINT				·	
Strength:	= WEAK	2 = STRONG	[Color: 1 = WHITE 2 = 1 5 = VARIEGATED		RED 4 = BROWN	
10. DISEASE R	ESISTANCE (O =	Not Tested, 1 = Sus	sceptible, 2 = Resistant	t):			
O so	TALK ROT (Diplo ORTHERN LEAF DUTHERN RUST ACTERIAL LEAF THER (Specify)	выснт	0 STALK ROT	EAF BLIGHT	0 0	STALK ROT (Gibberella SMUT BACTERIAL WILT STUNT)
11. INSECT RES	SISTANCT (O = No	ot Tested, 1 = Susce	ptible, 2 = Resistant):				
ОЯ	PRNBORER POTWORM (North	ern) O RO	RWORM OTWORM (Western) HER (Specify)	O SAPBI	EETLE	О АРНІО	
12. VARIETIES	MOST CLOSELY I	RESEMBLING THA	AT SUBMITTED FOR	THE CHARACTERS GIV	EN:		
CHARACTER	₹ ′		VARIETY	CHARACTER		VARIETY	
Maturity Plant Type	·		one one	Kernel Type		None	
Ear Type			ne	Quality (Edible) Usage		None None	
Corr Eme The Strin	Department Agric n: Culture, Process erson, R.A., G.W. B Mutants of Maize. ngfield, G.H. Maize	eulture. Yearbook sing, Products. 197 leadle, and A.C. Fra 1968. Crop Scienc Inbred Lines of Of	1937. 0 Avi Publishing Com Iser. A Summary of Li ce Society of America Iio. Ohio A.E.S. Bui.	pany, Westport, Connectic nkage Studies in Maize.Con Madison, Wisconsin.	rnell A.E.S., I	us (Authors) Viem. 180. 1935.	
COMMENTS:	Add. Tiber.	1 Inform	nATION CO. ded.	uld begATh	iered	IN 1984	,

FORM LPGS-470-28 (3-79)